AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. (Currently Amended) A drive unit for automatically actuating a vehicle door, in particular

the tailgate of a motor vehicle, it being possible to connect the drive unit-(4) to the vehicle

door-(1) or to a transmission device-(6) by means of an output shaft-(5), said transmission

device executing a pivoting movement which corresponds to the pivoting movement of the

vehicle door-(1), and the drive unit-(4) comprising at least one first sensor device-(7) which

can be connected to an electronic evaluation device (21) and serves to detect the respective

angular position of the vehicle door-(1), having the following features:

(a) the first sensor device—(7) comprises a rotation angle measuring device for

detecting the absolute value of at least three mutually adjacent pivot angle ranges

 (a_1-a_4) of the vehicle door-(1), these pivot angle ranges covering the entire pivot

angle $\frac{1}{1}$ between the closed position $\frac{1}{1}$ of the vehicle door $\frac{1}{1}$ and the opened

position (II) of the vehicle door, and

(b) the drive unit-(4) comprises at least one second sensor device-(9) which has at

least one incremental measured value detector for measuring the relative position

of the output shaft (5) of the drive unit (4) in relation to the start or the end of the

respective pivot angle range $(\alpha_1, \alpha_2, \alpha_3)$.

2. (Currently Amended) The drive unit as claimed in claim 1, characterized in that the first

sensor device (7) for detecting the absolute value of the pivot angle ranges $(\alpha_1, \alpha_2, \alpha_3)$ of the

vehicle door-(1) is arranged on the output shaft-(5) of the drive unit-(4) and detects its

pivoting movement.

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3. (Currently Amended) The drive unit as claimed in claim 1, characterized in that, in the case of a drive unit-(4) with a plurality of gear stages-(10, 12) arranged in series, the first sensor device-(7) is arranged between two gear stages-(10, 12), and in that an additional gear mechanism-(30) is provided and has an output device which executes a rotary movement which can be detected by the first sensor device-(7) and is analogous to the output shaft.

- 4. (Currently Amended) The drive unit as claimed in claim 2, characterized in that the first sensor device—(7) comprises at least one first magnet magnetic disk—(14; 14') which is arranged on the output shaft—(5) of the drive unit—(4) or on the output device of the additional gear mechanism—(30) and, as seen in the circumferential direction, has at least two magnetic regions—(15, 16; 26, 27) of differing polarity, and comprises comprises at least two magnetic field sensors—(17-19; 28, 29) which scan the magnetic regions—(15, 16; 26, 27) of the magnet magnetic disk—(14; 14'), the magnetic regions—(15, 16; 26, 27) of the magnet magnetic disk—(14; 14') and the magnetic field sensors—(17-19; 28, 29) being arranged with respect to one another in such a way that, when the output shaft—(5) of the drive unit—(4) or the output device of the additional gear mechanism—(30) rotates from the starting opsition position to the end position and vice versa, at least three mutually adjacent angle ranges—(a1—a4) are produced, with, for each angle range—(a1—a4), magnetic field sensors—(17-19; 28, 29) being associated with the magnetic regions—(15, 16; 26, 27) in a different manner which is characteristic of this angle range.
- 5. (Currently Amended) The drive unit as claimed in claim 4, characterized in that the number and arrangement of the magnetic regions (15, 16; 26, 27) of the magnetic magnetic disk-(14; 14') and the magnetic field sensors (17-19; 28, 29) are chosen in such a way that, when the output shaft-(5) of the drive unit-(1) or the output device of the additional gear mechanism

(30) rotates from its starting position to its end position, the absolute values of at least four mutually adjacent pivot angle ranges (a1-a4) can be detected.

- 6. (Currently Amended) The drive unit as claimed in claim 5, characterized in that the two magnetic regions (15, 16) of differing polarity are sector-like and the magnetic field sensors (17-19) are arranged next to one another in such a way that the magnetic field of the first magnetic region (16) is initially applied to all three magnet magnetic field sensors (17-19) in the starting position and, when the output device of the additional gear mechanism (30)-rotates, the magnetic field sensors (17-19) trhen then successively move into the second magnetic region (15).
- 7. (Currently Amended) The drive unit as claimed in claim 4, characterized in that the magentic field sensors (28, 29) are arranged along the outer edge of the magnet magnetic disk-(14') and at a distance from it.
- (Currently Amended) The drive unit as claimed in claim 4, characterized in that the magnetic field sensors—(17-19) are positioned at a prescribed distance to the side of the magnet magnetic disk-(14).
- 9. (Currently Amended) The drive unit as claimed in claim 3, characterized in that the first magnet magnetic disk-(14) of the first sensor device-(7) is in the form of a swash plate of a swash plate mechanism-(30), with the magnet magnetic disk-(14) being arranged on a cam (32), which is connected to the output shaft-(13) such that they rotate together and is in the form of an eccentric, such that it can rotate and in some regions rolls on a ring gear-(31) which is fixed to the housing.

10. (Currently Amended) The drive unit as claimed in claim 9, characterized in that the second gear stage—(12) is a planetary gear whose housing is in the form of a ring gear for the swash plate mechanism.

- 11. (Currently Amended) The drive unit is claimed in claim 4, characterized in that the magnet magnetic field sensors (17-19; 28, 29) are Hall sensors.
- 12. (Currently Amended) The drive unit as claimed in claim 3, characterized in that the first sensor device—(7) comprises at least one first magnet magnetic disk—(14; 14') which is arranged on the output shaft—(5) of the drive unit—(4) or on the output device of the additional gear mechanism—(30) and, as seen in the circumferential direction, has at least two magnetic regions—(15, 16; 26, 27) of differing polarity, and comprises comprises at least two magnetic field sensors—(17–19; 28, 29) which scan the magnetic regions—(15, 16; 26, 27) of the magnet magnetic disk—(14; 14'), the magnetic regions—(15, 16; 26, 27) of the magnet magnetic disk—(14; 14') and the magnetic field sensors—(17–19; 28, 29) being arranged with respect to one another in such a way that, when the output shaft—(5) of the drive unit—(4) or the output device of the additional gear mechanism—(30) rotates from the starting opsition position to the end position and vice versa, at least three mutually adjacent angle ranges—(a1-a4) are produced, with, for each angle range—(a1-a4), magnetic field sensors—(17–19; 28, 29) being associated with the magnetic regions—(15, 16; 26, 27) in a different manner which is characteristic of this angle range.
- 13. (Currently Amended) The drive unit as claimed in claim 12, characterized in that the number and arrangement of the magnetic regions (15, 16; 26, 27) of the magnet magnetic disk (14; 14') and the magnetic field sensors (17-19; 28, 29) are chosen in such a way that, when the output shaft (5) of the drive unit (1) or the output device of the additional gear mechanism 214097-1

(30) rotates from its starting position to its end position, the absolute values of at least four mutually adjacent pivot angle ranges $(\alpha 1 - \alpha 4)$ can be detected.

- 14. (Currently Amended) The drive unit as claimed in claim 12, characterized in that the two magnetic regions (15, 16) of differing polarity are sector-like and the magnetic field sensors (17-19) are arranged next to one another in such a way that the magnetic field of the first magnetic region (16) is initially applied to all three magnet magnetic field sensors (17-19) in the starting position and, when the output device of the additional gear mechanism (30)-rotates, the magnetic field sensors (17-19) trhen then successively move into the second magnetic region (15).
- 15. (Currently Amended) The drive unit as claimed in claim 5, characterized in that the magnetic field sensors (28, 29) are arranged along the outer edge of the magnet magnetic disk (14') and at a distance from it.
- 16. (Currently Amended) The drive unit as claimed in claim 6, characterized in that the magnetic magnetic field sensors (28, 29) are arranged along the outer edge of the magnet magnetic disk (14) and at a distance from it.
- 17. (Currently Amended) The drive unit as claimed in claim 5, characterized in that the magnetic field sensors (17-19) are positioned at a prescribed distance to the side of the magnet magnetic disk-(14).
- 18. (Currently Amended) The drive unit as claimed in claim 6, characterized in that the magnetic field sensors—(17-19) are positioned at a prescribed distance to the side of the magnet magnetic disk-(14).

19. (Currently Amended) The drive unit as claimed in claim 2, characterized in that the first magnet magnetic disk-(14) of the first sensor device-(7) is in the form of a swash plate of a swash plate mechanism-(30), with the magnet magnetic disk-(14) being arranged on a cam (32), which is connected to the output shaft-(13) such that they rotate together and is in the form of an eccentric, such that it can rotate and in some regions rolls on a ring gear-(31) which is fixed to the housing.

- 20. (Currently Amended) The drive unit as claimed in claim 19, characterized in that the second gear stage (12) is a planetary gear whose housing is in the form of a ring gear for the swash plate mechanism.
- 21. (Currently Amended) The drive unit is claimed claim 12, characterized in that the magnet magnetic field sensors (17 19; 28, 29) are Hall sensors.